

re-run



RAW SEQUENCE LISTING

DATE: 10/01/2004

PATENT APPLICATION: US/09/894,030

TIME: 10:40:54

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF4\10012004\I894030.raw

2 <110> APPLICANT: Hansen, J. Norman

4 <120> TITLE OF INVENTION: Construction of a Structural Variant of Sublancin to Facilitate its

5 Isolation and Use in Bioremediation of Environmental Contamination by Gram-
6 positive Spore Formers such as Bacillus anthracis

8 <130> FILE REFERENCE: 108172-00058

C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/894,030

C--> 10 <141> CURRENT FILING DATE: 2001-06-29

10 <150> PRIOR APPLICATION NUMBER: 60/215,449

11 <151> PRIOR FILING DATE: 2000-06-29

13 <160> NUMBER OF SEQ ID NOS: 3

15 <170> SOFTWARE: PatentIn version 3.1

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 2517

19 <212> TYPE: DNA

20 <213> ORGANISM: Artificial Sequence

22 <220> FEATURE:

23 <223> OTHER INFORMATION: EcoRI-HindIII insert of the pLPVc integrative plasmid.

25 <400> SEQUENCE: 1

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28	tcaacgagct	ggattaacag	gtgggcataa	gagttaagat	aaatttaaac	ttatataaca	120
30	catcgcttaa	agtttttttg	ttttaaaaac	ttaaaaaaca	tggtaaaatt	atataaaaac	180
32	ataagaaaga	gtgattatat	ggaatatgta	ggtatgataa	tcattttatt	agcacttttc	240
34	tttattttta	ctgttttcct	aaatacacgt	tatagttttg	atgaaaaatg	cttagtctta	300
36	aaatttggtt	tatctaaaac	agaaattcca	attaatcaaa	tagttagtat	taaagagtca	360
38	gacaagtatg	gagttgcaga	taatatcgat	tataaaattg	gtatgccata	tgctcaacca	420
40	gatagaattg	ttattgaaac	tacaaataag	cgttttctag	ttttttttaa	tggagctcaa	480
42	caattttattc	aaaagtataa	aagggttagt	gtttgaacat	aaaaaagtac	cttcttacaa	540
44	tagaagggtac	ttttttgtat	ctataattat	taaaaattta	cctaaatttt	tatcattatt	600
46	aattcaaaat	aatccataa	tagtcaattt	tatttagtgt	attacaacca	attcggatcc	660
48	aagcacccat	tagttcaaca	aacgaaaatt	ggataaagtg	ggatattttt	aaaatatata	720
50	tttatgtttac	agtaatatg	acttttataa	aaggattgat	tctaatagaag	aaagcagaca	780
52	agtaagcctc	ctaaattcac	tttagataaa	aatttaggag	gcataatcaa	tgaactttaa	840
54	taaaattgat	ttagacaatt	ggaagagaaa	agagatat	aatcattatt	tgaaccaaca	900
56	aacgactttt	agtataacca	cagaaattga	tattagtgtt	ttataccgaa	acataaaaaca	960
58	agaaggatat	aaattttacc	ctgcatttat	tttcttagtg	acaaggggtga	taaactcaaa	1020
60	tacagctttt	agaactgggt	acaatagcga	cggagagtta	ggttattggg	ataagttaga	1080
62	gccactttat	acaatttttg	atggtgtatc	taaaacattc	tctggtattt	ggactcctgt	1140
64	aaagaatgac	ttcaaagagt	tttatgattt	atacctttct	gatgtagaga	aatataatgg	1200
66	ttcggggaaa	ttgtttccca	aaacacctat	acctgaaaat	gctttttctc	tttctattat	1260
68	tccatggact	tcatttactg	ggtttaactt	aaatatcaat	aataatagta	attaccttct	1320
70	accattattt	acagcaggaa	aattcattaa	taaaggtaat	tcaatatatt	taccgctatc	1380
72	tttacaggta	catcattctg	tttgtgatgg	ttatcatgca	ggattgttta	tgaactctat	1440
74	tcaggaattg	tcagataggc	ctaagtactg	gcttttataa	tatgagataa	tgccgactgt	1500



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76 acttttttaca gtcggttttc taatgtcact aacctgcccc gttagttgaa gaagggattc 1560
78 gtgtattaca accaattctg tttattgata ggtaataaag ttttttttct atgatttatg 1620
80 aacaagtttc cttataattt tcaaaaaaaa ataaaaaata tgggtgaatt tagatttatc 1680
82 ttcctttata ttaaaaaatg taatccggat tgcaaacaaa tggggagggt ttacaaatgg 1740
84 aaaagctatt taaagaagtt aaactcgagg aactcgaaaa ccaaaaagggt agtggattag 1800
86 gaaaagctca gtgtgctgcg ttgtggctac aatgtgctag tggcggtaca attggttggtg 1860
88 gtggcggagc tggtgcttgt caaaactatc gtcaattctg cagataaaac atttgtagag 1920
90 ggaatatttt aaatattccc tcataattta agcggggatt gaaattgaat aagaaaaaga 1980
92 aatatgttca tactaaacag ttaaatagtc atgattgtgg actagcttgt atctcgtcaa 2040
94 ttttaaagtt tcataacctt aactatggaa ttgatttctt actagacctt attggggata 2100
96 aggaaggcta tagtttaaga gacttaattg ttatttttaa gaagatgggg ataaaaacta 2160
98 ggccacttga attgcaagaa aataagacat tcgaagccct aaaacaaata aagctccctt 2220
100 gtatagcttt gttagaaggg gaggaatatg gacattacat aacaatatac gaaattagaa 2280
102 ataactatth acttgtagt gatcctgata aagacaaaat aactaaaata aaaaaagagg 2340
104 attttgaaag taaattcaca aactttatat tagaaattga caaagagtca attcctgaaa 2400
106 aagaaaaaga tcaaaaaaaa cattcttact tttttaagga catacttttt agaaataaat 2460
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115 <210> SEQ ID NO: 2

116 <211> LENGTH: 300

117 <212> TYPE: DNA

118 <213> ORGANISM: Artificial Sequence

120 <220> FEATURE:

121 <223> OTHER INFORMATION: The sublancin-His Tag gene and its corresponding peptide sequence.

123 <220> FEATURE:

124 <221> NAME/KEY: CDS

125 <222> LOCATION: (1)..(300)

126 <223> OTHER INFORMATION:

W--> 129 <400> 2

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130 atg gaa aag cta ttt aaa gaa gtt aaa ctc gag gaa ctc gaa aac caa 48
131 Met Glu Lys Leu Phe Lys Glu Val Lys Leu Glu Glu Leu Glu Asn Gln
132 1 5 10 15
134 aaa ggt agt gga tta gga aaa gct cag tgt gct gcg ttg tgg cta caa 96
135 Lys Gly Ser Gly Leu Gly Lys Ala Gln Cys Ala Ala Leu Trp Leu Gln
136 20 25 30
138 tgt gct agt ggc ggt aca att ggt tgt ggt ggc ggc gcc gtt gct tgt 144
139 Cys Ala Ser Gly Gly Thr Ile Gly Cys Gly Gly Gly Ala Val Ala Cys
140 35 40 45
142 caa aac tat cgt caa ttc tgt aga ggt ggt ggt ggg gga ggc ggg gga 192
143 Gln Asn Tyr Arg Gln Phe Cys Arg Gly Gly Gly Gly Gly Gly Gly Gly
144 50 55 60
146 ggg ggt ggt ggt gga gga ggt ggt ggt ggt ggt ggt atg tca aag ttc 240
147 Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Met Ser Lys Phe
148 65 70 75 80
150 gat gat ttc gat cta gat gtt gtg aaa gtc tct aaa caa gac tca aaa 288
151 Asp Asp Phe Asp Leu Asp Val Val Lys Val Ser Lys Gln Asp Ser Lys
152 85 90 95
154 atc act ccg caa 300
155 Ile Thr Pro Gln
156 100

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159 <210> SEQ ID NO: 3
160 <211> LENGTH: 100
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: The peptide sequence for sublancin-His Tag.
167 <400> SEQUENCE: 3
169 Met Glu Lys Leu Phe Lys Glu Val Lys Leu Glu Glu Leu Glu Asn Gln
170 1          5          10          15
173 Lys Gly Ser Gly Leu Gly Lys Ala Gln Cys Ala Ala Leu Trp Leu Gln
174          20          25          30
177 Cys Ala Ser Gly Gly Thr Ile Gly Cys Gly Gly Gly Ala Val Ala Cys
178          35          40          45
181 Gln Asn Tyr Arg Gln Phe Cys Arg Gly Gly Gly Gly Gly Gly Gly Gly
182          50          55          60
185 Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Met Ser Lys Phe
186 65          70          75          80
189 Asp Asp Phe Asp Leu Asp Val Val Lys Val Ser Lys Gln Asp Ser Lys
190          85          90          95
193 Ile Thr Pro Gln
194          100

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VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:129 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:126